

Claims

1. A device for delivering fuel from a tank to an internal combustion engine, equipped with a pressure control valve that has a first chamber and a second chamber, which is separated from the first chamber by means of a valve member; the valve member cooperates with a valve seat; and a first connecting conduit situated in the vicinity of the valve seat feeds into the first chamber when the pressure control valve is open, characterized in that the valve member (29) has a through conduit (48) that connects the first connecting conduit (23) to the second chamber (32) when the pressure control valve (22) is closed.
2. The device according to claim 1, characterized in that the valve member (29) has a diaphragm (45).
3. The device according to claim 1, characterized in that the second chamber (32) is embodied as sealed in relation to the atmosphere.
4. The device according to claim 1, characterized in that the second chamber (32) contains a spring element (35) that prestresses the valve member (29) in the closing direction.
5. The device according to claim 1, characterized in that the pressure control valve (22) is situated parallel to a check valve (21).

6. The device according to claim 5, characterized in that the check valve (21) is situated in a third pressure line segment (10.3) and pressure control valve (22) is situated in a fourth pressure line segment (10.4); the third pressure line segment (10.3) permits a flow in the direction of the engine (13) and the fourth pressure line segment (10.4) permits a flow in the direction of the tank (1).

7. The device according to claim 6, characterized in that a protective filter (26) is situated in the fourth pressure line segment (10.4), upstream of a second connecting conduit (24) of the pressure control valve (22) that feeds into the first chamber (31).

8. The device according to claim 7, characterized in that the protective filter (26) has a mesh aperture of less than 60 micrometers.